

PULSE-REVERSE POWER SUPPLY

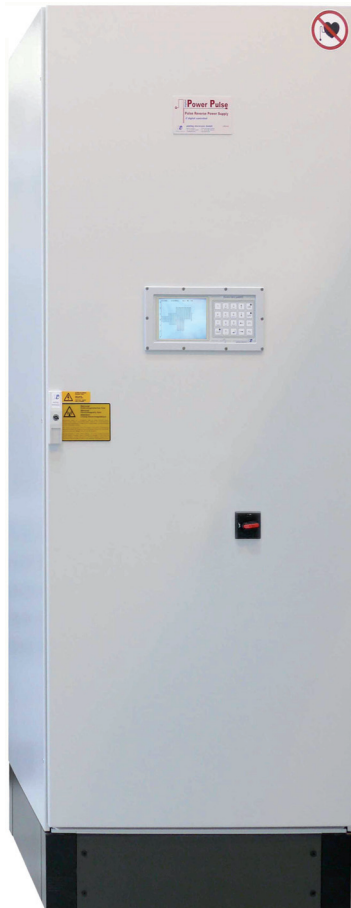


plating electronic
we care for power

POWER PULSE pe80CD804

Output power:	max. 4 x 16000 Watts
Effective - and DC-current:	max. 4 x 1060 A
Reverse-current:	max. 4 x 2400 A
Effective voltage:	Standard 4 x 6 V, other voltages on request (up to 550V)

Typical applications:
PCB lines



POWER PULSE pe80CD804, front view with
Control unit pe8005

Characteristic values

Switch mode technology

4-fold output

Linearity inaccuracy < 1 % (related to nominal DC value)

Ripple less than < 1 % (related to nominal DC value)

Complex waveforms

Constant current regulation (voltage regulation on request)

SPI interface for control unit pe8005

Fast rise and fall times (rectangular waveforms)

Permanent short circuit and open circuit proof

Microprocessor controlled regulation

Mains supply: standard 400 V/3~ +/- 10 % / 50-60 Hz
(other voltages on request)

Max. effective output power: see below matrix

Cooling

Water cooled (designed for the direct installation at the electroplating tank)

Ambient temperature 40°C

Over temperature protected

Design

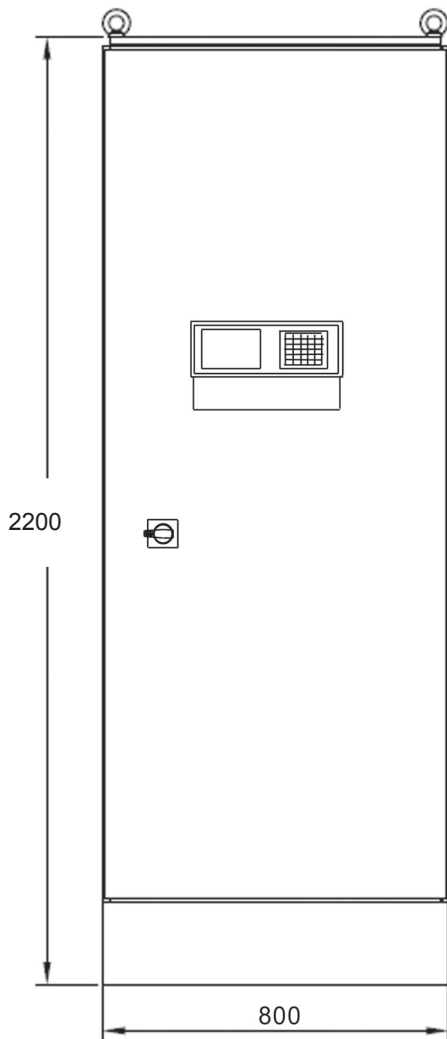
Compact Rittal TS cabinet; protection grade IP54

DC/Pulse connection in back panel (tin copper bus bars)

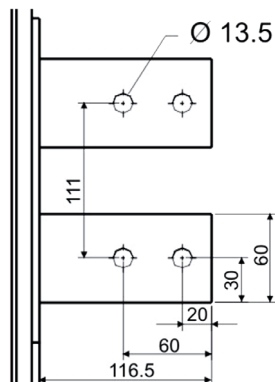
EMV: EN50011 class A, group B ; EN61000-6-4 and EN61000-6-2;
CE-conformity low voltage guide line: EN50178

Typ	pe80CD804	other sizes on request
Forward or DC current	4 x 1060 A	
Reverse pulse current	4 x 2400 A	
Effective output voltage	6 V	
Minimum time reverse-pulse	0.1 msec.	
Water cooling		
Max. water inlet temperature	23°C - 26°C	
Max. water outlet temperature	40°C	
Water consumption approx.	9.2 l/min	
Weight	approx. 520 kg	

Dimensions (W x H x D): 800 x 2200 x 600 mm



Pulse output bus bars:



Operation / programming (via external pe8005 control unit)

Large illuminated 5,7" graphic display

5 x 4 keypad for easy handling and navigation

Clear and user friendly menu navigation via well structured pull down menus

Easy generation of complex waveforms with up to 16 individual steps with 2 individual amplitudes (I_{x1} and I_{x2} as well as t_{x1} and t_{x2}), that can be positive or negative

MMC/SD card reader for software update, import / export of device configuration, set values and storing of bus-logging data

RS485 interface (optional: PROFIBUS or TCP/IP)

Synchronization function

2 programmable output relays

Ah-totalizer, dosage counter, timer

Programmable START ramp

Parameters individually adjustable even during operation

Display

Clear display of actual values

Graphic view of the set value shape, actual values shown in oscilloscope-mode

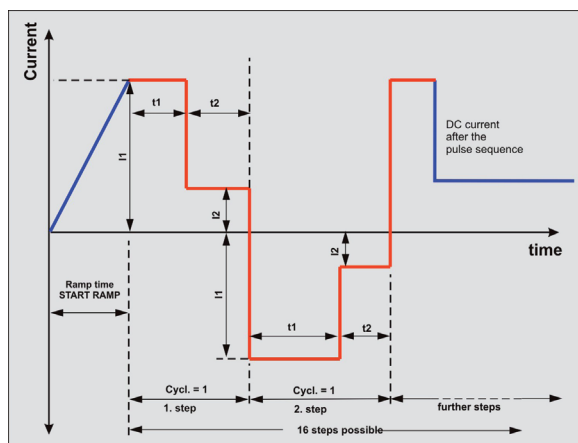
Status, warning and error indication

Resolution

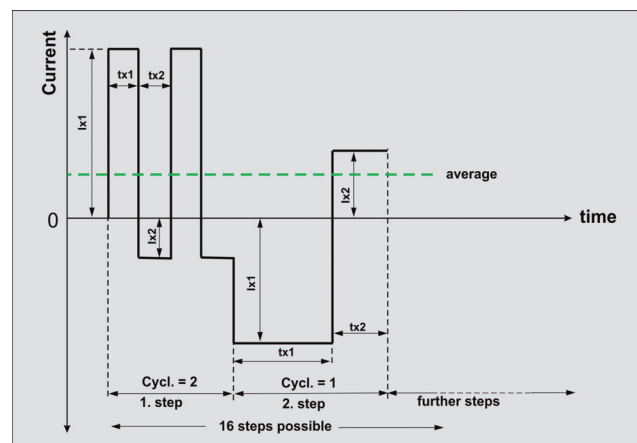
0 up to +/- xx.xA for I_{x1} and I_{x2} ; resolution: 100mA

0 up to 9 999.9mSec for t_{x1} and t_{x2} ; resolution: 0,1mSec

Cycles (repeatings per step): 1 - 99



Examples: pulse shapes, schematic display



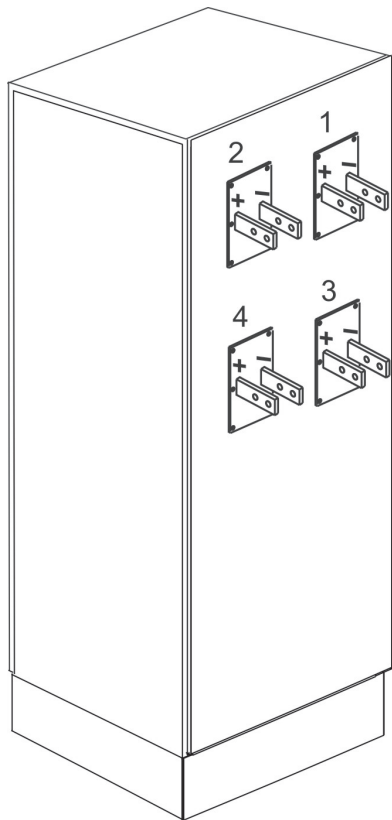
Example 2: with average value

PULSE-REVERSE POWER SUPPLY

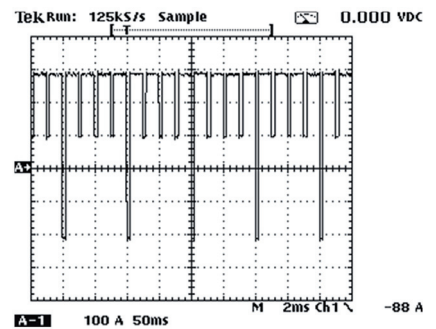
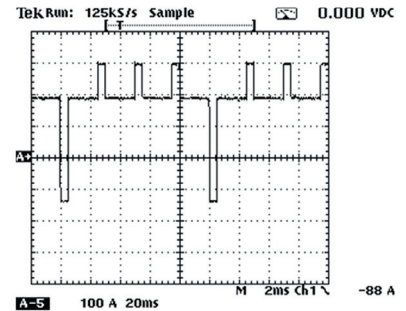
POWER PULSE pe80CD804



plating electronic
we care for power

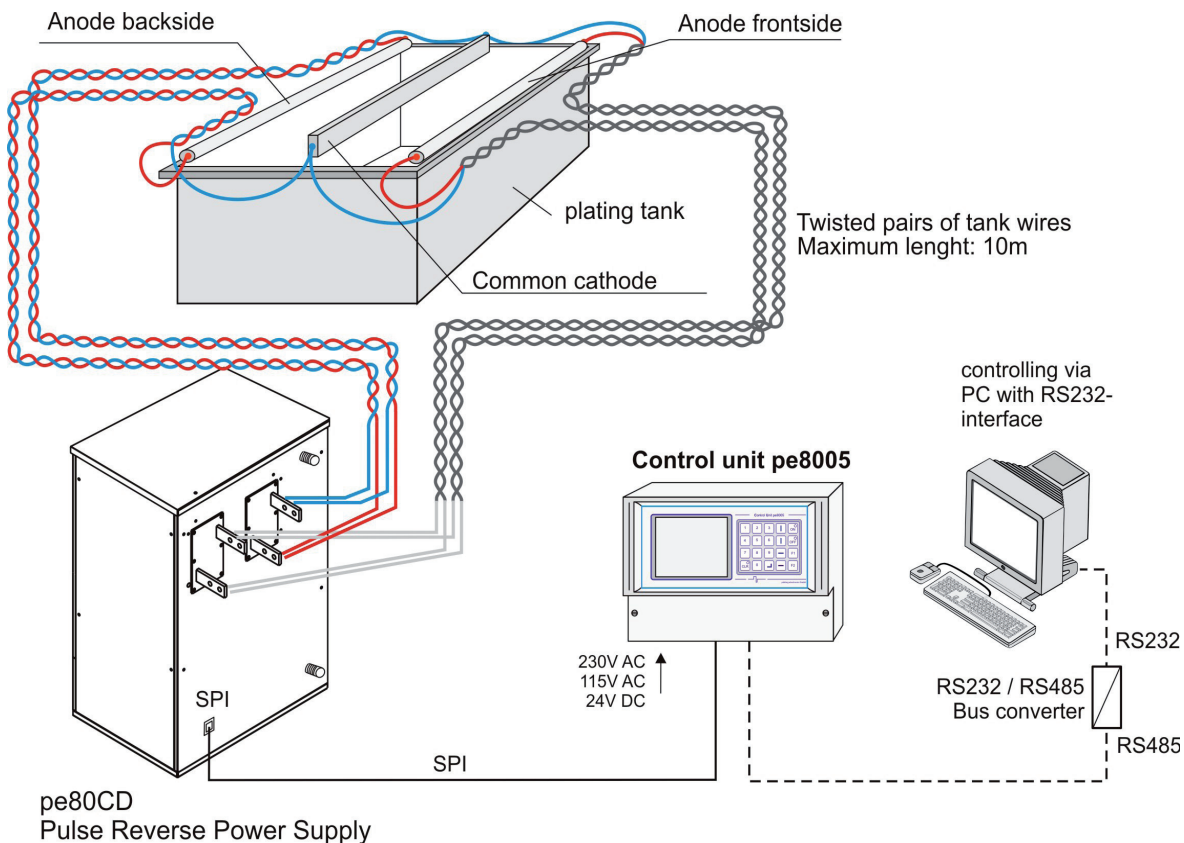


Graphic:
example for pulse curves that can
be generated by the pulse rectifier



Back panel with pulse output bus bars

Wiring diagram pe80CD Pulse-Reverse Power Supply and control unit pe8005



Technical equipment, design and features: subject to change! For further information please contact plating electronic GmbH.